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DATASHEET - E59-A30A112D01-CV

Proximity Sensor, M30, analog, Sn=1-12mm, 15-30VDC, 0-20mA, 0-10V, M12

Part no. E59-A30A112D01-CV
166685

General specifications	
Product name	Eaton E59 AccuProx analog inductive proximity sensor
Part no.	E59-A30A112D01-CV
EAN	4015081643707
Product Length/Depth	152.4 millimetre
Product height	44.45 millimetre
Product width	127 millimetre
Product weight	0.45 kilogram
Certifications	IEC/EN 60947-5-2 CE UL 508 CSA File No.: 50513 UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 CSA UL CSA Class No.: 3211-03 UL File No.: E166051
Product Tradename	E59 AccuProx
Product Type	Analog inductive proximity sensors
Product Sub Type	None
Public Consumption	Yes
Product Family Description	ES-PCD-Eaton E59 AccuProx analog inductive proximity sensors
Globally Marketable	Yes
Product Specification Details	
Actuation type	Metallic Target
Ambient operating temperature - max	70 °C
Ambient operating temperature - min	-40 °C
Category (EN 954-1)	B
Connection type	Plug-in connection M12 x 1 3-wire/4-wire
Degree of protection	NEMA 4X, 6, 13 IP67
Diameter sensor	30 mm
Electric connection type	Other
Enclosure material	Metal
Enclosure material finishing	Other
Enclosure type	Cylinder, screw-thread
Explosion safety category for dust	None
Explosion safety category for gas	None
Installation type	Concise
Interface type	None
LED indicator	Status indication of Switching state: Red LED Status indication of Operating voltage: Green LED
Material	Stainless steel
Mounting method	Flush mounting
Number of contact energized outputs with signalling function	0
Number of outputs (protected contact energized)	0
Number of outputs (protected semiconductor)	0
Number of outputs (semiconductor with signaling function)	0
Output current	0 - 20 mA
Output current at protected output - max	20 mA
Output voltage	0 - 10 V

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Product category			E59 AccuProx Series
Rated control supply voltage (Us) at AC, 50 Hz - max			0 V
Rated control supply voltage (Us) at AC, 50 Hz - min			0 V
Rated control supply voltage (Us) at AC, 60 Hz - max			0 V
Rated control supply voltage (Us) at AC, 60 Hz - min			0 V
Rated control supply voltage (Us) at DC - max			30 V
Rated control supply voltage (Us) at DC - min			15 V
Rated switching distance (Sn) - max			12 mm
Rated switching distance (Sn) - min			1 mm
Repeatability			1 %
Safety performance level (EN ISO 13849-1)			None
Sensor height			0 mm
Sensor length			74.1 mm
Shock resistance			30 g, Mechanical, Shock duration 11 ms
SIL (IEC 61508)			None
Supply voltage - max			30 V
Supply voltage - min			15 V
Switch function type			Other
Switching frequency			140 Hz
Switching output type			Analog
Temperature drift of sn			10 %
Type			Inductive sensor
Voltage rating - max			30 V
Voltage type			DC
Width sensor			0 mm

Technical data ETIM 9.0

Sensors (EG000026) / Inductive proximity switch (EC002714)		
Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related inductive sensor / Safety-related inductive proximity switch (ecl@ss13-27-27-41-01 [AKE630019])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	74.1
Diameter sensor	mm	30
Mechanical mounting condition for sensor		Concise
Switching distance	mm	12
Suitable for safety functions		
Type of switch function		Other
Type of switching output		Other
Type of electric connection		Other
Number of semiconductor outputs with signalling function		0
Number of contact energized outputs with signalling function		0
Number of protected semiconductor outputs		0
Number of protected contact energized outputs		0
Type of actuation		Metallic Target
Type of interface		None
Type of interface for safety communication		None
Construction type housing		Cylinder, screw-thread
Coating housing		Other
Cascadable		
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Max. output current at protected output	mA	20
Supply voltage	V	15 - 30
Rated control supply voltage AC 50 Hz	V	0 - 0
Rated control supply voltage AC 60 Hz	V	0 - 0

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Rated control supply voltage DC		V	15 - 30
Voltage type			DC
Switching frequency		Hz	140
With monitoring function downstream switching devices			
Housing material			Metal
Compression-resistant			
Explosion safety category for gas			None
Explosion safety category for dust			None
Interference resistance to magnetic fields			
Degree of protection (NEMA)			4X, 6, 13

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